

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY  
SAULT STE MARIE, ON



COURSE OUTLINE

Course Title: SAFETY AND HUMAN FACTORS IN AVIATION

Code No.: AVT 280

Semester: SEVEN(7)

Program: AVIATION TECHNOLOGY (FLIGHT)

Author: BRIAN STEWART

Date: JANUARY 1997 Previous Outline Date: JANUARY 1994

Approved: *K. DeRosario* *Jan. 6/98*  
Dean Date

Total Credits: 4 Prerequisite(s): AVT Semester 6

Length of Course: 16 weeks Total Credit Hours: 64 periods

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For additional information, please contact Kitty DeRosario, Dean, School of Trades  
& Technology, (705) 759-2554, Ext. 642.

**I. COURSE DESCRIPTION:**

review and study of safety issues as they relate to aviation.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

Upon successful completion of this course the student will demonstrate the ability to:

- 1) be knowledgeable about the human element as it relates to the safe operation of an aircraft, its passengers and crew

Potential Elements of the Performance:

- human factors
- pilot decision making course
- good flying practices

- 2) prepare a company aviation safety survey/report for Sault College Aviation

Potential Elements of the Performance:

- company aviation safety officer course

**III. TOPICS:**

- 1) pilot decision making
- 2) good flying practices
- 3) stress management
- 4) instrument flying
- 5) crew resource management
- 6) accident case studies
- 7) airline employment techniques
- 8) introduction to two crew operations
- 9) company aviation safety officer course
- 10) human medical factors for pilots

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

- 1) Human Factors for Aviation - Basic Handbook
- 2) Human Factors for Aviation - Advanced Handbook
- 3) Pilots Guide to Medical Human factors
- 4) From The Ground Up - Human Factors
- 5) Internet Access

## V. EVALUATION PROCESS/GRADING SYSTEM

The student will be assessed by tests. Weighting of each test will be 50 % for all tests prior to the final and 50 % for the final exam.

### GRADE:

- A+ - 93 - 100%
- A - 87 - 92%
- B - 80 - 86%
- C - 70 - 79%
- R - Below 70%

- Students may request a deferment of a test for compassionate reasons. Compassionate Grounds for deferment will include but not be limited to death of an immediate family member, personal illness, or recent diagnosis of a serious illness of a family member. **Rewrites will not be permitted after the fact for compassionate reasons.**

- **"R" grades in any subject at the end of a semester will result in termination from the program. Re-writes in aviation subjects are not permitted except as provided in the re-write policy below.**

- Attendance is mandatory for all Aviation classes unless approval is granted in advance.

- Although attitude, co-operation, etc., are not graded, students may be terminated based on their performance in this area. These attributes are also considered in the selection of the Air Canada Award and other scholarships.

- Dates of tests will be announced at least 1 week in advance.

### RE-WRITE POLICY

- No re-writes on mid-term tests.

- The final exam of AVT 280 may be re-written in the event of a failure provided the semester average is 70% or greater and the failed final exam is within 5% of a pass. (i.e. 65% or above). The re-written final exam will be averaged with the failed final exam to determine the resulting mark which must be 70% or above to pass.

COURSE NAME SAFETY AND HUMAN FACTORS IN AVIATION COURSE NUMBER AVT 280

## VI. SPECIAL NOTES:

### Special Needs

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.

### Retention of Course Outlines

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

### Disclaimer for Meeting the Needs of the Learners

## VII. PRIOR LEARNING ASSESSMENT

There will be no advanced credit given for this course.